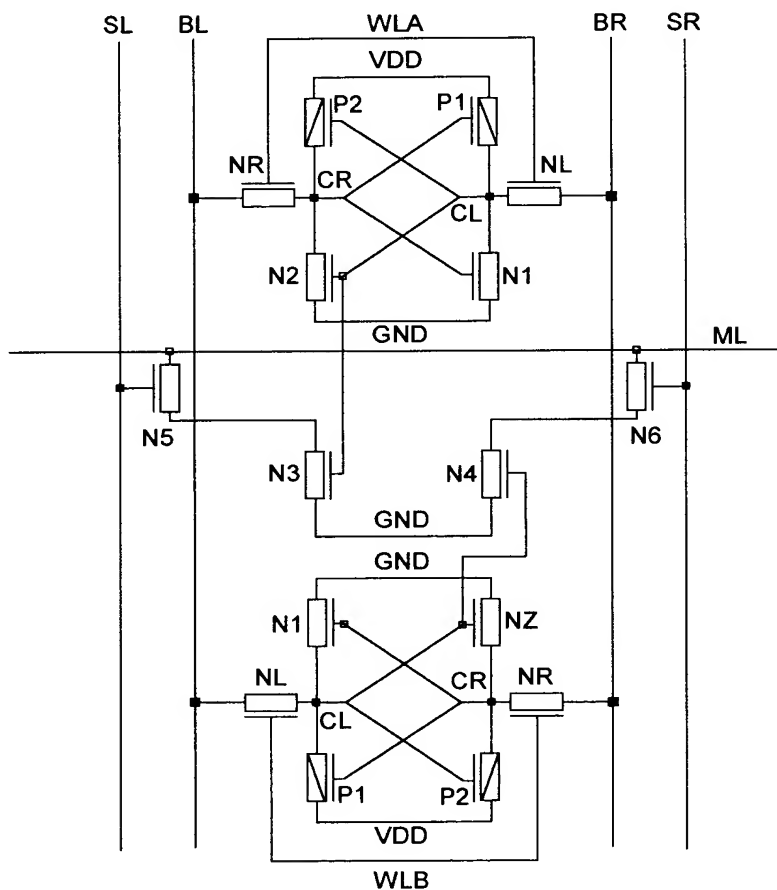




# CAM cell schematics NFET passgate

FIG. 1

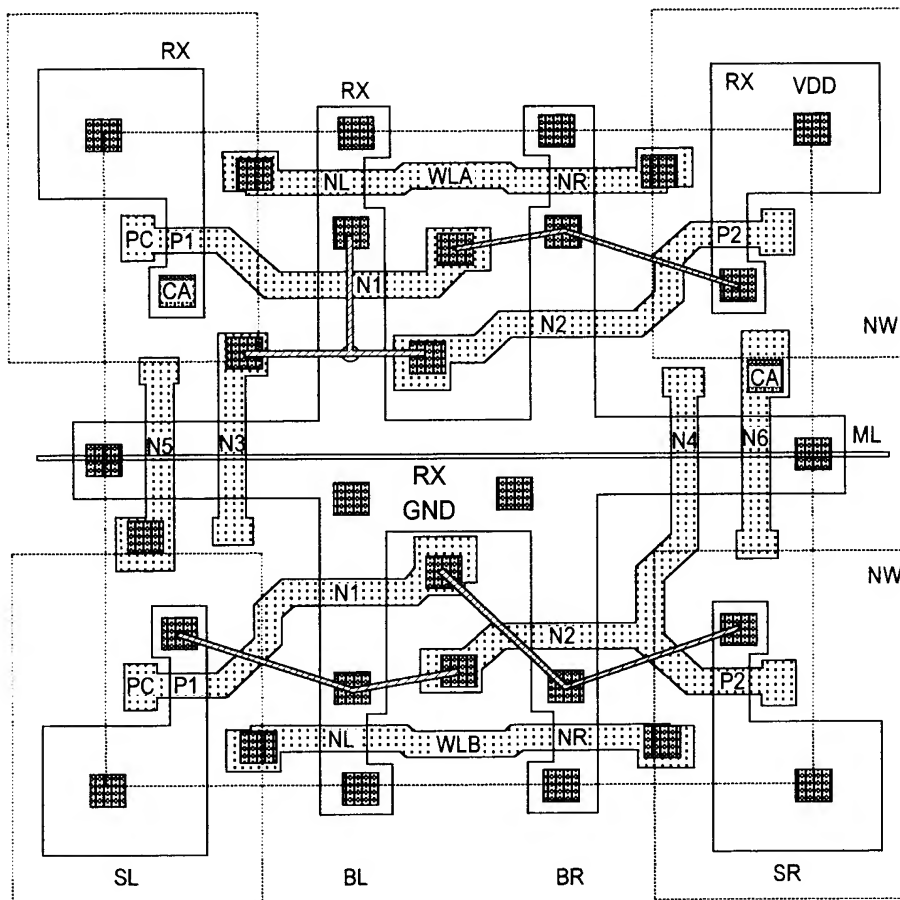
CELL A	CELL B	
0	0	DON'T CARE
0	1	ZERO
1	0	ONE
1	1	MISMATCH ALWAYS





# FIG. 1B

CAM Cell with NFET Passgates  
3.1x3.1=9.61 0.13um Node

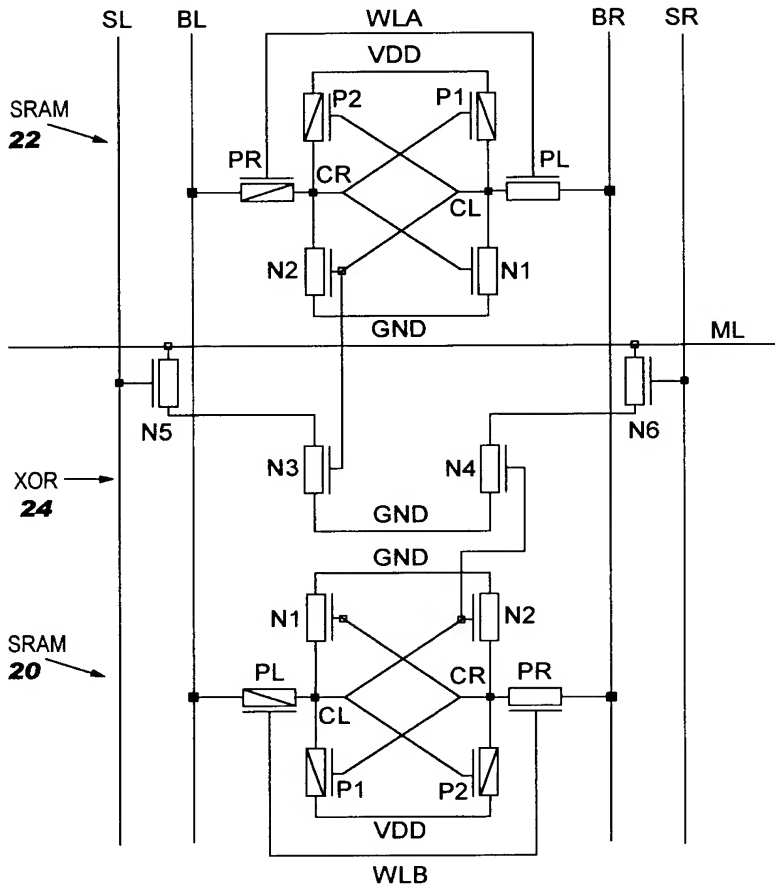




PFET passgate  
CAM cell schematics

FIG. 2A

CELL A	CELL B	
0	0	DON'T CARE
0	1	ZERO
1	0	ONE
1	1	MISMATCH ALWAYS



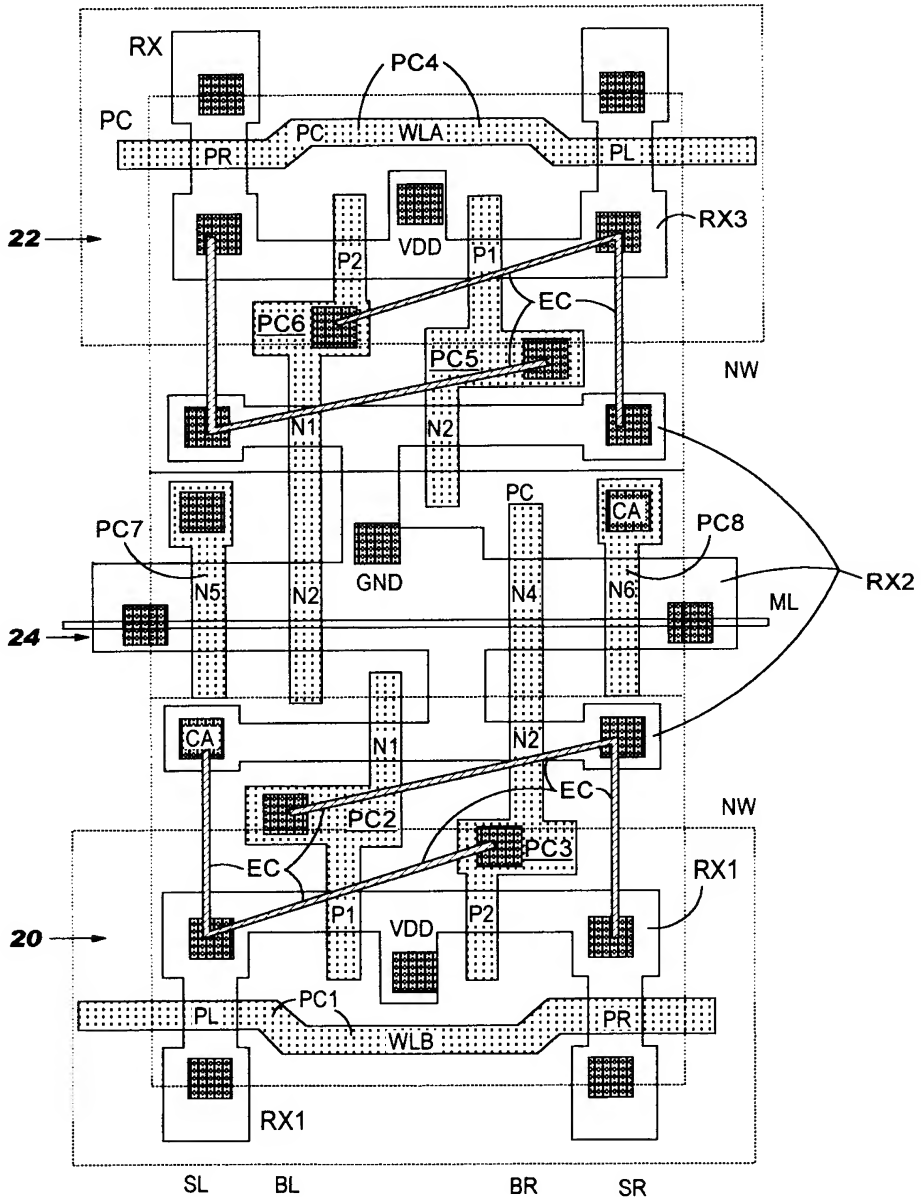
P-passgate CAM  $2.0 \times 3.9 = 7.80$

N-Passgate CAM  $3.1 \times 3.1 = 9.61$



# CAM cell with PFET Passgates FIG. 2B

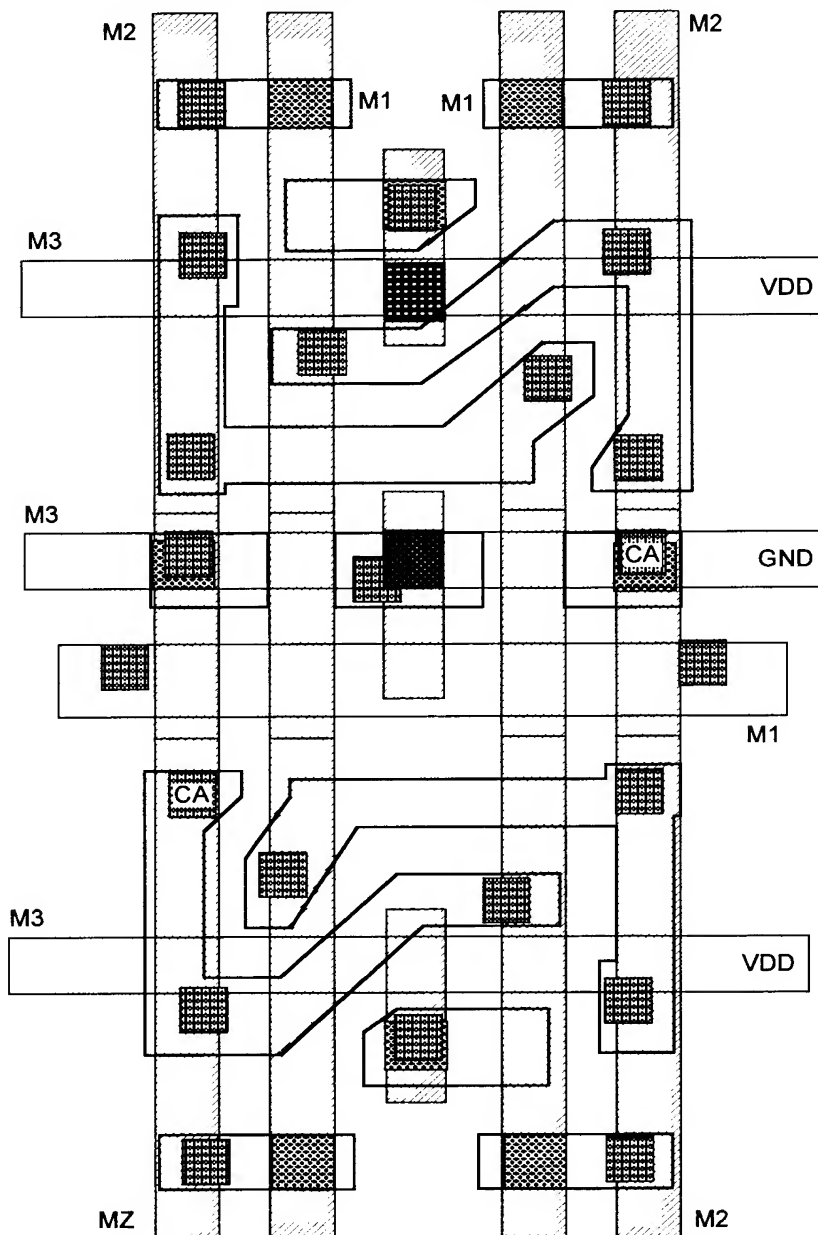
2.0x3.9=7.8





# CAM Cell with PFET Passgates FIG. 2C

Wiring : CA-M1-V1-M2-V2-M3





# CAM Cell with PFET Passgates FIG. 2D

Dimensions @ 0.13  $\mu\text{m}$  node

